

OICE

RAW SEQUENCE LISTING

DATE: 04/26/2001

PATENT APPLICATION: US/09/804,357

TIME: 17:22:42

Input Set : N:\Crf3\RULE60\09804357.txt

Output Set: N:\CRF3\04262001\I804357.raw

ENTERED

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4 <110> APPLICANT: White, David
5     Zhou, Jianghong
6     Tartaglia, Louis A.
8 <120> TITLE OF INVENTION: LEPTIN INDUCED GENES
10 <130> FILE REFERENCE: 07334/109001
12 <140> CURRENT APPLICATION NUMBER: 09/804,357
13 <141> CURRENT FILING DATE: 2001-03-12
15 <150> PRIOR APPLICATION NUMBER: US 09/195,896
16 <151> PRIOR FILING DATE: 1998-11-19
18 <150> PRIOR APPLICATION NUMBER: US 60/108,379
19 <151> PRIOR FILING DATE: 1998-10-29
21 <150> PRIOR APPLICATION NUMBER: US 09/150,857
22 <151> PRIOR FILING DATE: 1998-09-10
24 <160> NUMBER OF SEQ ID NOS: 17
26 <170> SOFTWARE: FastSEQ for Windows Version 3.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 1196
30 <212> TYPE: DNA
31 <213> ORGANISM: Mus musculus
33 <400> SEQUENCE: 1
34 agatgagtggt ggggogtcga agagtcgaagt tgctgggcat cctgatgatg gaaaatgtct      60
35 tcaatttattt gattgtggaa gtctccaaaa acagtajcca agacaaaaat gaaaagggag      120
36 gagtaataat ccgaaagag aagttctgga agccacccag cactcccogg gcatactgga      180
37 acagggaaaca ggagaagctg aacaggtggt acaatcccat ctggaacagg gtggccaate      240
38 agacaggggga gctagccaca tctccaaaaca caagtcacat gactatttgt gaaccagact      300
39 cgagggtcgat gacagctgtg acagatttta ataattctgc ggacagattt aaagaacttc      360
40 tcttgatttt gagatgcogg aattactcgc tgcattataga tcaacccaag aaatgtgcaa      420
41 agaagccctt cttactattg gcgataaaagt cctcattcc acattttgoc agaagccaag      480
42 caattcggga gtcttggggc cgagaaacca acgtaggga ccagacagta gtgaggggtct      540
43 tccgtgttggg caagacaccc ccagaggaca accacccatga cctttcggac atgcttaagt      600
44 ttgagagtga caagcaccag gacatcctca tgtggaacta tagagacaca ttcttcaacc      660
45 ttgccttgaa ggaagtgtct tttcttaggt ggggtgagac ttcctgtcca gacgcagagt      720
46 ttgtcttcaa gggcgatgat gacgtgtttg tgaacaccca tcaatcctt aattacttga      780
47 ataatttata caagaacaaa gccaaagact tgttcatagg tgaagtgate cacaatgctg      840
48 ggcctacccg ggataagaaa ctgaagtact acatcccaga agtctttctac accggcgtct      900
49 acccaccgta tgcgggggtt ggtggattcc tgaactcogg cccctttgoc ttgagggctgt      960
50 acattgcgac tagccgggtc catctctacc ctattgatga tgtttatacg ggaatgtgoc      1020
51 ttccagaaact ggcccttgtt ccagagaagc acaaaggctt caggacattt gatattgaag      1080
52 agaaaaataa gaaaaatatt tgttctata tagacctaat gttagtacat agcagaaaaa      1140
53 ctcaagagat gattgatatc tgggtcagtt tgcaaaagtc taatttaaaa tctgtga      1196
55 <210> SEQ ID NO: 2
56 <211> LENGTH: 397
57 <212> TYPE: PRT
58 <213> ORGANISM: Mus musculus
60 <400> SEQUENCE: 2
61 Met Ser Val Gly Arg Arg Arg Val Lys Leu Leu Gly Ile Leu Met Met
62      1              5              10              15

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63 Ala Asn Val Phe Ile Tyr Leu Ile Val Glu Val Ser Lys Asn Ser Ser
64      20      25      30
65 Gln Asp Lys Asn Gly Lys Gly Gly Val Ile Ile Pro Lys Glu Lys Phe
66      35      40      45
67 Trp Lys Pro Pro Ser Thr Pro Arg Ala Tyr Trp Asn Arg Glu Gln Glu
68      50      55      60
69 Lys Leu Asn Arg Trp Tyr Asn Pro Ile Leu Asn Arg Val Ala Asn Gln
70      65      70      75      80
71 Thr Gly Glu Leu Ala Thr Ser Pro Asn Thr Ser His Leu Ser Tyr Cys
72      85      90      95
73 Glu Pro Asp Ser Thr Val Met Thr Ala Val Thr Asp Phe Asn Asn Leu
74      100      105      110
75 Pro Asp Arg Phe Lys Asp Phe Leu Leu Tyr Leu Arg Cys Arg Asn Tyr
76      115      120      125
77 Ser Leu Leu Ile Asp Gln Pro Lys Lys Cys Ala Lys Lys Pro Phe Leu
78      130      135      140
79 Leu Leu Ala Ile Lys Ser Leu Ile Pro His Phe Ala Arg Arg Gln Ala
80      145      150      155      160
81 Ile Arg Glu Ser Trp Gly Arg Glu Thr Asn Val Gly Asn Gln Thr Val
82      165      170      175
83 Val Arg Val Phe Leu Leu Gly Lys Thr Pro Pro Glu Asp Asn His Pro
84      180      185      190
85 Asp Leu Ser Asp Met Leu Lys Phe Glu Ser Asp Lys His Gln Asp Ile
86      195      200      205
87 Leu Met Trp Asn Tyr Arg Asp Thr Phe Phe Asn Leu Ser Leu Lys Glu
88      210      215      220
89 Val Leu Phe Leu Arg Trp Val Ser Thr Ser Cys Pro Asp Ala Glu Phe
90      225      230      235      240
91 Val Phe Lys Gly Asp Asp Asp Val Phe Val Asn Thr His His Ile Leu
92      245      250      255
93 Asn Tyr Leu Asn Ser Leu Ser Lys Ser Lys Ala Lys Asp Leu Phe Ile
94      260      265      270
95 Gly Asp Val Ile His Asn Ala Gly Pro His Arg Asp Lys Lys Leu Lys
96      275      280      285
97 Tyr Tyr Ile Pro Glu Val Phe Tyr Thr Gly Val Tyr Pro Pro Tyr Ala
98      290      295      300
99 Gly Gly Gly Gly Phe Leu Tyr Ser Gly Pro Ala Leu Leu Arg Leu Tyr
100      305      310      315      320
101 Ser Ala Thr Ser Arg Val His Leu Tyr Pro Ile Asp Asp Val Tyr Thr
102      325      330      335
103 Gly Met Cys Leu Gln Lys Leu Gly Leu Val Pro Glu Lys His Lys Gly
104      340      345      350
105 Phe Arg Thr Phe Asp Ile Glu Glu Lys Asn Lys Lys Asn Ile Cys Ser
106      355      360      365
107 Tyr Ile Asp Leu Met Leu Val His Ser Arg Lys Pro Gln Glu Met Ile
108      370      375      380
109 Asp Ile Trp Ser Gln Leu Gln Ser Pro Asn Leu Lys Cys
110      385      390      395
112 <210> SEQ ID NO: 3

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Input Set : N:\Crif3\RULE60\09804357.txt

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113 <211> LENGTH: 1191
114 <212> TYPE: DNA
115 <213> ORGANISM: Mus musculus
117 <400> SEQUENCE: 3
118 atgagtgtgg ggcgtcgaag agtcaagttg ctgggcatcc tgatgatggc aaatgtcttc      60
119 atttatttga ttgtggaagt ctccaaaaac agtagccaag acaaaaatgg aaagggagga      120
120 gtaataatcc cgaaagagaa gttctggaag ccaccagca ctccccgggc ataactggaac      180
121 agggaacagg agaagctgaa caggtggtac aatcccatct tgaacagggt ggccaatcag      240
122 acagggggagc tagccacatc tccaaacaca agtcacctga gctattgtga accagactcg      300
123 acggtcatga cagctgtgac agattttaat aatctgcggg acagatttaa agaactttctc      360
124 ttgtatttga gatgccggaa ttactcgctg cttatagatc aaccgaagaa atgtgcaaa      420
125 aagcccttct tactattggc gataaagtcc ctcatccac attttgccag aaggcaagca      480
126 attcgggagc cttggggccg agaaaccaac gtagggaacc agacagtagt gagggctctc      540
127 ctgttgggca agacaccccc agaggacaac caccctgacc ttccggacat gcttaagttt      600
128 gagagtgaca agcaccagga catcctcatg tggaactata gagacacatt cttcaacctg      660
129 tccctgaagg aagtgtgtgt tcttaggtgg gtgagcaact cctgtccaga cgcagagttt      720
130 gtcttcaagg gcgatgatga cgtgtttgtg aacacccatc acatccttaa ttacttgaat      780
131 agcttatcca agagcaaagc caaagacttg ttcatagggt acgtgatcca caatgtctgg      840
132 cctcacccgg ataagaaact gaagtactac atccagaaag tcttctacac cggcgtctac      900
133 ccaccgtatg ccgggggtgg tggattcctg tactccggcc ccttgcctt gaggtgtac      960
134 agtgcgacta gcggggtcca tctctacct attgatgatg ttatacggg aatgtgcctt     1020
135 cagaaaactgg gccttgttcc agagaagcac aaagjcttca gacatttga tattgaagag     1080
136 aaaaataaga aaaatatttg ttcttatata gacctaatgt tagtacatag cagaaaacct     1140
137 caagagatga ttgatctctg gtctcagttg caaagtccca atttaaatg c      1191
139 <210> SEQ ID NO: 4
140 <211> LENGTH: 365
141 <212> TYPE: PRT
142 <213> ORGANISM: Mus musculus
144 <400> SEQUENCE 4
145 Gln Asp Lys Asn Gly Lys Gly Gly Val Ile Ile Pro Lys Glu Lys Phe
146 1 5 10 15
147 Trp Lys Pro Pro Ser Thr Pro Arg Ala Tyr Trp Asn Arg Glu Gln Glu
148 20 25 30
149 Lys Leu Asn Arg Trp Tyr Asn Pro Ile Leu Asn Arg Val Ala Asn Gln
150 35 40 45
151 Thr Gly Glu Leu Ala Thr Ser Pro Asn Thr Ser His Leu Ser Tyr Cys
152 50 55 60
153 Glu Pro Asp Ser Thr Val Met Thr Ala Val Thr Asp Phe Asn Asn Leu
154 65 70 75 80
155 Pro Asp Arg Phe Lys Asp Phe Leu Leu Tyr Leu Arg Cys Arg Asn Tyr
156 85 90 95
157 Ser Leu Leu Ile Asp Gln Pro Lys Lys Cys Ala Lys Lys Pro Phe Leu
158 100 105 110
159 Leu Leu Ala Ile Lys Ser Leu Ile Pro His Phe Ala Arg Arg Gln Ala
160 115 120 125
161 Ile Arg Glu Ser Trp Gly Arg Glu Thr Asn Val Gly Asn Gln Thr Val
162 130 135 140
163 Val Arg Val Phe Leu Leu Gly Lys Thr Pro Pro Glu Asp Asn His Pro
164 145 150 155 160

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Input Set : N:\CrF3\RULE60\09804357.txt

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165 Asp Leu Ser Asp Met Leu Lys Phe Glu Ser Asp Lys His Gln Asp Ile
166                               165                               170                               175
167 Leu Met Trp Asn Tyr Arg Asp Thr Phe Phe Asn Leu Ser Leu Lys Glu
168                               180                               185                               190
169 Val Leu Phe Leu Arg Trp Val Ser Thr Ser Cys Pro Asp Ala Glu Phe
170                               195                               200                               205
171 Val Phe Lys Gly Asp Asp Asp Val Phe Val Asn Thr His His Ile Leu
172                               210                               215                               220
173 Asn Tyr Leu Asn Ser Leu Ser Lys Ser Lys Ala Lys Asp Leu Phe Ile
174                               225                               230                               235                               240
175 Gly Asp Val Ile His Asn Ala Gly Pro His Arg Asp Lys Lys Leu Lys
176                               245                               250                               255
177 Tyr Tyr Ile Pro Glu Val Phe Tyr Thr Gly Val Tyr Pro Pro Tyr Ala
178                               260                               265                               270
179 Gly Gly Gly Gly Phe Leu Tyr Ser Gly Pro Ala Leu Leu Arg Leu Tyr
180                               275                               280                               285
181 Ser Ala Thr Ser Arg Val His Leu Tyr Pro Ile Asp Asp Val Tyr Thr
182                               290                               295                               300
183 Gly Met Cys Leu Gln Lys Leu Gly Leu Val Pro Glu Lys His Lys Gly
184                               305                               310                               315                               320
185 Phe Arg Thr Phe Asp Ile Glu Glu Lys Asn Lys Lys Asn Ile Cys Ser
186                               325                               330                               335
187 Tyr Ile Asp Leu Met Leu Val His Ser Arg Lys Pro Gln Glu Met Ile
188                               340                               345                               350
189 Asp Ile Trp Ser Gln Leu Gln Ser Pro Asn Leu Lys Cys
190                               355                               360                               365

192 (210) SEQ ID NO: 5
193 (211) LENGTH: 1203
194 (212) TYPE: DNA
195 (213) ORGANISM: Mus musculus
197 (400) SEQUENCE: 5
198 atgatttggc cttcagcttt actggttatt ttaagaaatt taatacggga agaaaaaatc 60
199 atttctcaag agatcctcaa ttgtattgaa ttaaggatga aaaaaggga tttcagttg 120
200 acaaactctg caatcagtga tgcattaaaa gaaatcgata gtagtgtgt caatgttgt 180
201 gtcacggggg agacgggatc aggggaagtc agcttcatca atacctgag aggcattggg 240
202 aatgaagaag aaggtgcagc taaaactggg gtggtggagg taacctgga aagacatcca 300
203 tagaaacacc ccaatatacc caatgtgggt ttttgggacc tgcctgggat tggaagcaca 360
204 aatttccacc caaacactta cctggagaaa atgaagttct atgagtaga ttctctcatt 420
205 atttatttcg ccacaagctt caagaaaaat gatatagaca ttgccaaaac aatcagcatg 480
206 atgaagaagg aattctactt cgtgagaacc aaggtggact ctgacataac aaatgaagca 540
207 gatggcaaac ctcaaacctt tgacaaagaa aaggtcctgc aggacatccg ccttaactgt 600
208 gtgaacacct ttagggagaa tggcatttgt gagccacca tcttctgtgt ctctaacaaa 660
209 aatttttgtc actatgactt ccccgctcgt atggacaagg tgataagtga cctccctatc 720
210 taaggagagc acaattttat ggtctcctta cccaatatca cagattcagt cattgaaaag 780
211 aaggggcaat ttctgaagca raggatttgg ctggaaggat ttgtgtgtga ctagtgaat 840
212 atctatccct ctctgacctt tctcttggac agtgatttgg agaacttgaa gaaaagcatg 900
213 aaattctacc gcactgtgtt tggagtggat gaaacatctt tgcagagatt agctagggac 960
214 tggcaaatag aggtggatca ggtggaggcc atgataaaat ctctgtgtgt gttcaaacct 1020
215 acagatgaag aaacaatata agaaaggctt tcaagatata ttcaggagtt ctgttttggt 1080

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TIME: 17:22:42

Input Set : N:\Crif3\RULE60\09804357.txt

Output Set: N:\CRF3\04262001\I804357.raw

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216 aatgggtact tacttcctaa aaatagtttt cttaaagaaa tattttacct gaaatattat 1140
217 ttcccttgaca tggtgactga ggatgctaaa actcttctta aagagatatg ttttaagaaac 1200
218 tag 1203
220 <210> SEQ ID NO: 6
221 <211> LENGTH: 400
222 <212> TYPE: PRT
223 <213> ORGANISM: Mus musculus
225 <400> SEQUENCE: 6
226 Met Ile Cys Pro Ser Ala Leu Leu Val Ile Leu Arg Asn Leu Ile Arg
227 1 5 10 15
228 Glu Glu Lys Ile Ile Ser Gln Glu Ile Leu Asn Leu Ile Glu Leu Arg
229 20 25 30
230 Met Lys Lys Gly Asn Ile Gln Leu Thr Asn Ser Ala Ile Ser Asp Ala
231 35 40 45
232 Leu Lys Glu Ile Asp Ser Ser Val Leu Asn Val Ala Val Thr Gly Glu
233 50 55 60
234 Thr Gly Ser Gly Lys Ser Ser Phe Ile Asn Thr Leu Arg Gly Ile Gly
235 65 70 75 80
236 Asn Glu Glu Glu Gly Ala Ala Lys Thr Gly Val Val Glu Val Thr Met
237 85 90 95
238 Glu Arg His Pro Tyr Lys His Pro Asn Ile Pro Asn Val Val Phe Trp
239 100 105 110
240 Asp Leu Pro Gly Ile Gly Ser Thr Asn Phe Pro Pro Asn Thr Tyr Leu
241 115 120 125
242 Glu Lys Met Lys Phe Tyr Glu Tyr Asp Phe Phe Ile Ile Ile Ser Ala
243 130 135 140
244 Thr Arg Phe Lys Lys Asn Asp Ile Asp Ile Ala Lys Ala Ile Ser Met
245 145 150 155 160
246 Met Lys Lys Glu Phe Tyr Phe Val Arg Thr Lys Val Asp Ser Asp Ile
247 165 170 175
248 Thr Asn Glu Ala Asp Gly Lys Pro Gln Thr Phe Asp Lys Glu Lys Val
249 180 185 190
250 Leu Gln Asp Ile Arg Leu Asn Cys Val Asn Thr Phe Arg Glu Asn Gly
251 195 200 205
252 Ile Ala Glu Pro Pro Ile Phe Leu Leu Ser Asn Lys Asn Val Cys His
253 210 215 220
254 Tyr Asp Phe Pro Val Leu Met Asp Lys Leu Ile Ser Asp Leu Pro Ile
255 225 230 235 240
256 Tyr Arg Arg His Asn Phe Met Val Ser Leu Pro Asn Ile Thr Asp Ser
257 245 250 255
258 Val Ile Glu Lys Lys Arg Gln Phe Leu Lys Gln Arg Ile Trp Leu Glu
259 260 265 270
260 Gly Phe Ala Ala Asp Leu Val Asn Ile Ile Pro Ser Leu Thr Phe Leu
261 275 280 285
262 Leu Asp Ser Asp Leu Glu Thr Leu Lys Lys Ser Met Lys Phe Tyr Arg
263 290 295 300
264 Thr Val Phe Gly Val Asp Glu Thr Ser Leu Gln Arg Leu Ala Arg Asp
265 305 310 315 320
266 Trp Glu Ile Glu Val Asp Gln Val Glu Ala Met Ile Lys Ser Pro Ala

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/804,357

DATE: 04/26/2001

TIME: 17:22:43

Input Set : N:\Crif3\RULE60\09804357.txt

Output Set: N:\CRF3\04262001\I804357.raw

L:523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:794 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
L:807 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17